Abstract

An ,magnetoresistive thin-film magnetic head with high corrosion resistance for recording medium having massive capacity is provided by providing a protective film having a thickness of 40 Å or less. Since the distance between the head and the medium is remarkably reduced, the film is suitable for a recording medium having high-packing density. The magnetoresistive type thin-film magnetic head is provided, wherein a protective film made of a diamond-like thin film having the composition represented by the following formula: $CH_a O_b N_c F_d B_e P_f$ (where a = 0 - 0.7, b = 0 - 1, c = 0 - 1, d = 0 - 1, e = 0 - 1 and f = 0 - 1, in terms of atomic ratio), and having a thickness of 40 Å or less, is formed on at least the surface of the head contacting a recording medium. Also provided are a method for producing the same, and a magnetic head device using the same.